MANUAL BOOK
MEDICAL NON CONTACT FOREHEAD THERMOMETER
MFT-01 (BLUETOOTH)

Thanks for purchasing our device.
Please read the Manual Book carefully before using this product. The operating procedures specified in this Manual Book should be followed strictly.

Copyright
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Our company reserves the right to change the content of this Manual Book without prior Note.

Responsibility of the company
Our company is only responsible for the safety, reliability and performance of the device in the following conditions: the installation and maintenance are performed by personnel approved by our company, and the device is used in accordance with the operating instructions.

Warranty
The device cannot be repaired by the user. All repairs should be performed by a technician authorized by our company. As requested by user, we will provide circuit diagrams, calibration methods and other information after paid by user, to help to repair the parts of the device classified as serviceable by qualified technicians. The warranty of this device covers all device failures caused by the failure of materials or production procedures. During the warranty period, all faulty parts can be repaired and replaced free of charge. Man-made damage is not covered by the warranty.

Explanation of notes in the Manual Book:

⚠ **Warning** ⚠
It indicates the information that you should know to avoid possible damage of user.

⚠ **Caution** ⚠
It indicates the information that you should know to avoid possible damage of device.

⚠ **Note** ⚠
It indicates the important information that you should know.

⚠ **Warning** ⚠
The device is not intended for use for treatment purpose.

⚠ **Warning** ⚠
Do not refit the device.

⚠ **Note** ⚠
If using this device fails to implement a satisfactory maintenance plan, it will cause abnormal device failure and may endanger human health.

Chapter 1 Overview

1.1 Product composition and intended use
Name: Medical Non Contact Forehead Thermometer
Model: MFT-01 (Bluetooth)
Composition: shell, circuit board, temp. measuring part, display screen and power supply.
Application: to measure temperature on forehead.

1.2 Performance parameters

Power	DC 1.5V 2 X "AAA"	
Display	1.3"	
Range	32.0°C ~ 43.0 °C	
Resolution	0.1 °C	
Accuracy	32.0 °C ~ 43.0 °C: ± 0.2 °C	
	35.0 °C or > 43.0°C: ± 0.2 °C	
Measurement Time	1 s	
Memory	30 groups of data	
Safety class	The device can not be used in the presence of a mixture of flammable anesthetic gas with air or oxygen or nitrous oxide	
Power management	Automatic shutdown when there is no operation; battery level indication; low battery prompt	
Weight	± 80 g	
Bluetooth	Auto ON	
Working	Temperature	-10 °C ~ 40 °C
	Humidity	≤ 90% RH
	Athmospheric	700 hPa ~ 1060 hPa
Storage	Temperature	-20°C ~ 55°C
	Humidity	≤ 95 % RH
	Athmospheric	700 hPa ~ 1060 hPa

1.3 Precautions

⚠ **Caution** ⚠
The service life of the device is 5 years. When the products described in this manual are about to expire, they must be disposed of in accordance with relevant treatment specifications. If you would like further information, please contact our company or its representative.

⚠ **Note** ⚠
- Contraindications: None.
- Do not place the device near charged object to avoid electric shock.
- Do not use this device in an environment with relative humidity greater than 85%.
- The device should away from electromagnetic area (such as radio, mobile phone, etc.).
- Please do not expose the device to the sun or near the stove, or contact with water.
- Avoid impact or accidently falling, and do not use it if it is damaged.

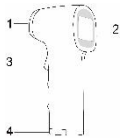
1.4 Accessories
- Infrared Thermometer(1)
- Battery AAA(2)

1.5 Symbols
Your device may not have all symbols below.

Symbol	Description	Symbol	Description
⚠	Attention! Please refer to the accompanying document (the Manual Book)		Please refer to the manual book
	Battery		Manufacturer
	Type BF applied part		This way up
	Temperature limit		Fragile, handle with care
	Humidity limit		Atmospheric pressure limit
	Service Life		Keep away from rain
5	Stacking limit by number	P/N	Material code by manufacturer
	Date of manufacture	LOT	Batch code
	Bluetooth	SN	Serial Number
	Waste disposal symbol. This symbol indicates that electrical and electronic equipment waste cannot be disposed of as unsorted municipal waste and must be recycled separately.		
EC REP	European Representative		
III	Class III		
	Please refer to instructions for use		

Chapter 2 Preparations before Measurement

2.1 Appearance
1) Infrared sensor
2) LCD screen
3) Button
4) Battery cover



2.2 Installation of battery
Following the direction in below figures, press down and slide the battery cover at the bottom of device to open it, install 2 AAA batteries, and close the battery cover. Pay attention to the polarity symbols inside the battery compartment. The positive and negative terminals of the battery cannot be reversed.

Figure 1

Figure 2

Figure 3

⚠ **Note** ⚠
- Please refer to the maintenance instructions for product inspection before preparing for measurement.
- When the battery icon becomes , it indicates that the battery is about to run out, you can still continue the test, but please replace 2 new batteries of the same model as soon as possible to avoid affecting normal use.
- If the device is not used for a long time, please remove the batteries to prevent battery leakage causing device damage.
- Please pay attention to the polarity of the battery. Wrong installation may cause device damage.
- Rechargeable battery is not allowed to use on the device. Only single-purpose battery can be used. Do not throw used batteries into fire.
- The disposal of waste batteries should follow local environmental protection regulations.

2.3 Button and parameter setting
Button symbol: " ⏻ "
1. In device off state, pressing the button could turn on the device, and the device performs self-test, after self-test is completed, it enters startup interface and makes a beep sound, if self-test fails, it prompts for failure on the screen.
2. In device on state, short press the button to start measuring.
3. In device on state, long press the button to enter review interface.

Chapter 3 Bluetooth Operating Instructions

1. Prepare the device (Android) to be used.
2. Download and install the application from the playstore or Scan QR code to install application.

Application SAM IoT

3. If you already have an account, enter your account name and password then click login.
4. If you don't have an account yet, do the following:

4-1. Enter Full Name, Email, Password, and Confirm Password, then click "SIGN UP"
4-2. Enter the verification code and click "VERIFY"
4-3. After Registration is Complete, return to Sign in.
4-4. Enter your email and Password. Click "SIGN IN" and enter
4. How to create a New Widget, follow these step

5-1. Click the three lines on the Dashboard, then select "Add new device" to create a new widget.

5-2. Click "DISCOVER BLUETOOTH DEVICE" then turn on the device.

5-3. TURN ON BLUETOOTH if the Bluetooth on the cellphone has not been activated.

5-4. Select Bluetooth according to the device.

5-5. Enter the Device Name and Select the "Elitech Thermometer MFT-01" Model.

5-6. Click "ADD" and select "Sure".

5-7. If the unit has been successfully connected, a "Success" notification will appear.

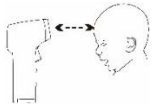
6. Measurement steps
1) Select the Widget that was created previously on the Dashboard.
2) Click "Start" to start the measurement. Make sure the connection is good and the unit is on.
3) Make sure widget has connected to server
4) After turning on the device, align the detection hole to the center of the forehead (above the place between eyebrows) and keep vertical, the distance from the device to the forehead should be less than 3 cm (do not directly touch the user's skin).
5) Press the button to start measuring.
6) After measuring, the temperature value will display on the screen. If

measuring unsuccessfully, "---" and corresponding error reason will display on the screen.

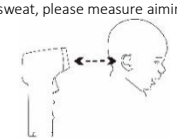
⚠ **Note** ⚠

- When the temperature measured exceeds the normal body temperature, "Hi" and the temperature less than normal "Lo" displays on the screen.

⚠ **Note** ⚠



- Before measuring, make sure that the measurement position is not covered by hair, sweat, cosmetics or hat, and do not measure on forehead with trauma, sweat, bangs, cooling patch, cosmetics or scar. As it may cause an inaccurate measurement.
- When the forehead temperature is influenced by environment temperature or the forehead has sweat, please measure aiming at earlobe.



- The ambient temperature around the tester should be stable, do not measure in places with large air flow, such as fan, air-conditioning outlet, etc.
- When the device is taken out from the place where has a large difference with the use environment, it should be left in the use environment for 30 minutes before measuring.
- Avoid using it when some cooling measures (such as cold compresses, sweating, etc.) are being taken on the feverish forehead, as it may result in a lower result.
- It is recommended to take three measurements per time, if the three values are different, please take the highest value. The measured results are only for reference, please do not diagnose and treat by yourself based on the results, please go to hospital for treatment if necessary.
- When the ambient temperature has a great change, please do not start measuring immediately.
- Please keep 15s interval between two continuous measurements, one minute is recommended.
- When measuring continuously for a long time, the measured results may have a little deviation, which is normal. As when holding the device, the temperature of hand affects the measurement for the device to the ambient temperature. So it is recommended to leave the device away from your hand after measuring several times or not measure.

3.2 Shutdown

The device will shut down automatically when there is no operation.

⚠ **Warning** ⚠

Please check whether the device and its accessories can work normally before use.

⚠ **Caution** ⚠

Please do not knock or drop the device during measuring.

⚠ **Note** ⚠

Please use the device in required working and storage environments, otherwise the result may not be measured or the measured result may be inaccurate.

Chapter 4 Maintenance

4.1 Maintenance and inspection

Please take the following inspections before using the device:

- Check whether there is any mechanical damage.
- Check whether the infrared detector has any damage.
- Check all functions of the device and make sure that the device is in good working condition.

If any damage sign is found, please contact the qualified service personnel.

After every 6 ~ 12 months or maintenance, a comprehensive inspection (including functions, safety and accuracy) to the device must be carried out by the qualified personnel.

All inspections required to open the device must be performed by the qualified service personnel. Safety and maintenance inspections can also be performed by company personnel. Your local company office will be happy to provide the information related to signing a maintenance contract.

4.2 Cleaning

- When using the device, please pay attention to its cleaning to avoid cross infection.
- When the surface of the device or the detector is contaminated, wipe it with 75% medical alcohol cotton ball, then wipe with a dry or soft cloth.

⚠ **Warning** ⚠

The device should not be maintained and cleaned while in use.The battery must be removed before cleaning the device.

⚠ **Caution** ⚠

- High-pressure sterilization cannot be used on the device.
- Do not immerse the device in liquid.
- Do not use the device if any damage sign on temperature probe or cable is found.
- If the device is dirty, wipe it with a soft and dry cloth.
- If the device is extremely dirty, wipe it with 75% medical alcohol cotton ball, then dry thoroughly.

⚠ **Warning** ⚠

Do not allow water to enter the device.

⚠ **Warning** ⚠

Do not wipe the device with volatile oil, diluent or gasoline, etc.

4.3 Storage method

⚠ **Warning** ⚠

Do not place the device in following places:

- Where is easy to be splashed by water.
- Direct sunlight, high temperature, humidity and dusty places.
- Where is inclined or subject to vibration or knock.
- Where chemicals or corrosive gases are stored.

Chapter 5 Troubleshooting

During using, the following problems may appear, please find a solution following the instructions below. If the problem exists still, please contact our customer service.

Problem and reason	Solution
Surface temperature is too low: it is affected by hair or sweat, etc.	Make sure there is no obstruction when measuring.
Surface temperature is too high.	Make sure the device is used within a measurable temperature range.
Surface temperature is too low: the measurement distance is too far.	Make sure to operate the device in accordance with requirements, then measure again.
Low power / the device can not be turned on.	Check the battery polarities to make sure they are installed properly; Low voltage, replace two new "AAA" batteries.

Appendix I EMC declaration

Table 1: Electromagnetic emission

Guidance and manufacturer's declaration –electromagnetic emission		
The Infrared Thermometer is intended for use in the electromagnetic environment specified below. The purchaser or the user of the device should assure that it is used in such environment.		
Emission test	Compliance	Electromagnetic environment – guidance
RF emissions CISPR 11	Group 1	The Infrared Thermometer uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class A	The Infrared Thermometer is suitable for use in all establishments other than domestic, and may be used in domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic Purposes.

Table 2: Electromagnetic immunity 1

Guidance and manufacturer's declaration-electromagnetic immunity			
The Infrared Thermometer is intended for use in the electromagnetic environment specified below. The purchaser or the user of the Infrared Thermometer should assure that it is used in such environment.			
Immunity test	IEC60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±8kV contact ±15 kV air	±8kV contact ±15kV air	Floors should be wood, concrete or ceramic tile. If floor are covered with synthetic material, the relative humidity should be at least 30 %.
Power frequency (50 / 60Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

Table 3: Electromagnetic immunity 2

Guidance and manufacturer's declaration – electromagnetic immunity			
The Infrared Thermometer is intended for use in the electromagnetic environment specified below. The purchaser or the user of the Infrared Thermometer should assure that it is used in such environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Radiated RF IEC61000-4-3	3 V/m 80 MHz- 2.7 GHz	3 V/m	Portable and mobile RF communication equipment should be used no closer to any part of the Infrared Thermometer including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance: $d=1.2\sqrt{P}$ $d=1.2\sqrt{P}$ 80 MHz-800 MHz $d=2.3\sqrt{P}$ 800 MHz-2.7 GHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, [a] should be less than the compliance level in each frequency range.[b] Interference may occur in the vicinity of equipment marked with the following symbol:
NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			
a. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Infrared Thermometer is used exceeds the applicable RF compliance level above, the Infrared Thermometer should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Infrared Thermometer. b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.			

Table 4: Recommended separation distances

Recommended separation distances between portable and mobile RF communications equipment and the Infrared Thermometer			
The Infrared Thermometer is intended for use in the electromagnetic environment in which radiated RF disturbances are controlled. The purchaser or the user of the Infrared Thermometer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Infrared Thermometer as recommended below, according to the maximum output power of the communications equipment.			
Rated power of transmitter (W)	Separation distance according to power of transmitter (m)		
	150kHz–80 MHz $d=1.17\sqrt{P}$	80 MHz – 800 MHz $d=0.17\sqrt{P}$	800 MHz – 2.7 GHz $d=2.33\sqrt{P}$
0.01	0.12	0.12	0.23

0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distanced in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

⚠ **Warning** ⚠

- Don't near active HF SURGICAL EQUIPMENT and the RF shielded room of an ME SYSTEM for magnetic resonance imaging, where the intensity of EM DISTURBANCES is high.
- Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
- Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation."
- Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the TP500, including cables specified by the manufacturer.Otherwise, degradation of the performance of this equipment could result.

Note:

- The EMISSIONS characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.

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